AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A light emitting device comprising at least one electroluminescent element (1) and a diffractive optical element (12) arranged to influence light emitted by the electroluminescent element (1), eharacterized in thatwherein the diffractive optical features of the diffractive optical element (12) are designed according to the an output light distribution of the ene or more electroluminescent elements at least one electroluminescent element(1), and wherein the electroluminescent element (1) is arranged in a housing (2) and/or substrate coupled to the diffractive optical element (1), and the a design of the diffractive optical features of the diffractive optical element (12) also incorporates the a shape and reflection characteristics of the underlying housing (2), with the points of the housing receiving light from the source being assumed to act as secondary Lambertian point sources.
- 2. (Currently Amended) A-The light emitting device according to claim 1, wherein symmetry characteristics of the diffractive optical element (12) correspond to symmetry characteristics of the electroluminescent element (1), as well as to the symmetry characteristics of the desired emission characteristics.

- 3. (Currently Amended) A-The light emitting device according to one of the claims 1 to 2claim 1, wherein the diffractive optical element (12) is shaped disposed in an at least partially transparent layer (11) which that covers a light emitting surface of the electroluminescent element (1).
- 4. (Currently Amended) A-The light emitting device according to claim 3, wherein the layer (11) does not extend over the light emitting surface of the electroluminescent element (1).
- 5. (Currently Amended) A-<u>The</u> light emitting device according to one of the elaims 1 to 4 claim 1, comprising a housing and/or substrate (2) for accommodating the electroluminescent element (1) and current supply means for the electroluminescent element (1), wherein the diffractive optical element (12) is coupled to the housing and/or substrate (2).
- 6. (Currently Amended) A-<u>The</u> light emitting device according to claim 5, wherein said diffractive optical element (12) is directly and irreversibly fixed to the housing and/or substrate (2).
- 7. (Currently Amended) A-The light emitting device according to claim 5, further or 6 comprising an LED (light emitting diode) further comprising and an LED chip as the electroluminescent element (1), a-the housing and/or substrate (2) and an at least partially transparent material (3) surrounding the electroluminescent

element (1), wherein said diffractive optical element (12) is made up of diffractive optical structures (12) on a surface of an at least partially transparent layer (11) attached to said at least partially transparent material (3).

- 8. (Currently Amended) A-The light emitting device according to claim 5, further er-6-comprising an LED (light emitting diode) further comprising and LED chip as the electroluminescent element (1), a-the housing and/or substrate (2) and an at least partially transparent material (3) surrounding the electroluminescent element (1), wherein said diffractive optical element is made up of diffractive optical structures (12) on a surface of said at least partially transparent material (3).
- 9. (Currently Amended) A-The light emitting device according to claim 7-or-8, wherein said at least partially transparent material (3) comprises light influencing additives, in particular a fluorescent material.
- 10. (Currently Amended) A-The light emitting device according to any one of the previous claims claim 1, wherein said diffractive optical element (12) comprises a plurality of independent sections each having an individual optical function.
- 11. (Currently Amended) A-The light emitting device according to any one of the previous claims 1, wherein said electroluminescent element (1) comprises a light emitting surface wherein the light emitting surface is covered by an at least partially transparent material (3), the at least partially transparent material (3) defining a first surface, wherein an at least partially transparent layer sticks to said

first surface and defines a second surface essentially parallel to said first surface, and wherein said diffractive optical element (12) is made up of diffractive optical structures <u>provided present</u> in said second surface.

- 12. (Currently Amended) A-The light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any-one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to any one of the previous claims light emitting device according to a
- 13. (Currently Amended) A method for manufacturing a diffractive optical structure that is to be used in a light emitting device in conjunction with an electroluminescent element arranged in a housing (2) and/or substrate, the diffractive optical structure being arranged to influence light emitted by the electroluminescent element (1), comprising the steps of:
- modelingmodelling the light emission of the electroluminescent
 element (1) as an array of point sources, each point source having the same an angular light distribution that is the same as the angular light distribution of the electroluminescent element as a whole, whereas the intensity may be is optionally adapted to a local emission strength of the electroluminescent element;
- medelingmodelling light emission of secondary point sources
 corresponding to points where light leaving the electroluminescent element is
 reflected by said housing (2) and/or substrate before reaching the diffractive optical
 structure, and modelling the light emission of secondary point sources as being
 lambertian;

- designing, for the desired light beam shape, a beam shaping optic for each point source;
- combining the-beam shaping optics for all point sources, generating a total optical function; and
- generating a surface profile for the diffractive optical structure according to the total optical function.

Claims 14-16 (Cancelled)

- 17. (New) The light emitting device according to claim 9, wherein said at least partially transparent material (3) comprises a fluorescent material.
- 18. (New) The light emitting device according to claim 8, wherein said at least partially transparent material (3) comprises light influencing additives.
- 19. (New) The light emitting device according to claim 18, wherein said at least partially transparent material (3) comprises a fluorescent material.